

**Note:** Some of this requirements will be changed in previous CCRs, and presented Requirements Keys are not necessarily valid.

**Implementor:** Please use the latest Requirements keys available in the RTM database.

**Table 1. RBR Requirements changes table.**

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpretation text	clar_text
SDPS0010#A	4127	mission essential	SDPS	functional	test	un-verified	test	un-verified	The SDPS shall provide CSMS with operational, data processing, and data quality data quality and accounting	Accounting is Accountability plus Billing. Rel. A: No accounting-billing.	
SDPS0091#A	4168	mission fulfillment	SDPS	functional	test	un-verified	test	un-verified	status. The SDPS shall receive a quality report that is generated and transmitted by the Pls or the other science users, and appended to the data products being archived by the SDPS.	A: QA CERES Metadata contains quality reports and appended to the data by association.	

**Table 2. Level 4 Requirements changes table.**

Note : Links to SDPS0120#A are deleted in CCR-0908A.

L4 id	req_key	rel	req_type	req_status	verification_method	text
S-IOS-60010	2847	A	operational-derived	incremental	demo	The electrical power requirements for ADSHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-IOS-60020	2848	A	operational-derived	incremental	demo	The air conditioning requirements for the ADSHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-IOS-60030	2849	A	operational-derived	incremental	demo	The grounding requirements for ADSHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-IOS-60040	2850	A	operational-derived	incremental	demo	The fire alarm requirements for ADSHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-IOS-60050	2851	A	operational-derived	incremental	demo	The acoustical requirements for ADSHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-IOS-60060	2852	A	operational-derived	incremental	demo	The physical interface requirements between ADSHW CI equipment and the facility shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-IOS-60070	2853	A	operational-derived	incremental	demo	The print size and the physical layout of ADSHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DMS-60010	3195	A	operational-derived	incremental	demo	The electrical power requirements for DMGHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DMS-60020	3196	A	operational-derived	incremental	demo	The air conditioning requirements for the DMGHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DMS-60030	3197	A	operational-derived	incremental	demo	The grounding requirements for DMGHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DMS-60040	3198	A	operational-derived	incremental	demo	The fire alarm requirements for DMGHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DMS-60050	3199	A	operational-derived	incremental	demo	The acoustical requirements for DMGHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DMS-60060	3200	A	operational-derived	incremental	demo	The physical interface requirements between DMGHW CI equipment and the facility shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DMS-60070	3201	A	operational-derived	incremental	demo	The print size and the physical layout of DMGHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).

S-DSS-60010	3904	A	operational-derived	approved	demo	The electrical power requirements for ACMHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DSS-60020	3905	A	operational-derived	approved	demo	The air conditioning requirements for the ACMHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DSS-60030	3906	A	operational-derived	approved	demo	The grounding requirements for ACMHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-60040	3907	A	operational-derived	approved	demo	The fire alarm requirements for ACMHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-60050	3908	A	operational-derived	approved	demo	The acoustical requirements for ACMHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-60060	3909	A	operational-derived	approved	demo	The physical interface requirements between ACMHW CI equipment and the facility shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-60070	3910	A	operational-derived	approved	demo	The footprint size and the physical layout of ACMHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DSS-70010	3923	A	operational-derived	approved	demo	The electrical power requirements for WKSHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DSS-70020	3924	A	operational-derived	approved	demo	The air conditioning requirements for the WKSHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DSS-70030	3925	A	operational-derived	approved	demo	The grounding requirements for WKSHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-70040	3926	A	operational-derived	approved	demo	The fire alarm requirements for WKSHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-70050	3927	A	operational-derived	approved	demo	The acoustical requirements for WKSHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-70060	3928	A	operational-derived	approved	demo	The physical interface requirements between WKSHW CI equipment and the facility shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-70070	3929	A	operational-derived	approved	demo	The footprint size and the physical layout of WKSHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DSS-80010	3944	A	operational-derived	approved	demo	The electrical power requirements for DRPHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DSS-80020	3945	A	operational-derived	approved	demo	The air conditioning requirements for the DRPHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DSS-80030	3946	A	operational-derived	approved	demo	The grounding requirements for DRPHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-80040	3947	A	operational-derived	approved	demo	The fire alarm requirements for DRPHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-80050	3948	A	operational-derived	approved	demo	The acoustical requirements for DRPHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-80060	3949	A	operational-derived	approved	demo	The physical interface requirements between DRPHW CI equipment and the facility shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-80070	3950	A	operational-derived	approved	demo	The footprint size and the physical layout of DRPHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DSS-90010	3968	A	operational-derived	approved	demo	The electrical power requirements for DIPHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DSS-90020	3969	A	operational-derived	approved	demo	The air conditioning requirements for the DIPHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DSS-90030	3970	A	operational-derived	approved	demo	The grounding requirements for DIPHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-90040	3971	A	operational-derived	approved	demo	The fire alarm requirements for DIPHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-90050	3972	A	operational-derived	approved	demo	The acoustical requirements for DIPHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-90060	3973	A	operational-derived	approved	demo	The physical interface requirements between DIPHW CI equipment and the facility shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DSS-90070	3974	A	operational-derived	approved	demo	The footprint size and the physical layout of DIPHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-INS-60160		A	performance	approved	demo	Startup and initialization of the ICLHW CI shall be completed within 30

	4160		<u>derived</u>			minutes (TBR).
S-INS-60170	4161	A	performance-derived	approved	demo	Shutdown of the ICLHW CI shall be completed within 30 minutes (TBR).
S-INS-60570	4186	A	operational-derived	approved	demo	The acoustical requirements for ICLHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DPS-60090	4678	A	performance-derived	approved	demo	The SPRHW CI shall support startup and initialization to be completed within 30 minutes (TBR)
S-DPS-60100	4679	A	performance-derived	approved	demo	The SPRHW CI shall support shutdown to be completed within 30 minutes (TBR).
S-DPS-60110	4680	A	functional-derived	approved	demo	The SPRHW CI shall have a fault detection/fault isolation capability of major HWCI component failures without interfering with operations.
S-DPS-60770	4713	A	operational-derived	approved	demo	The acoustical requirements for SPRHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).
S-DPS-70770	4764	A	functional-derived	approved	test/demo	The acoustical requirements for AITHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).
S-DPS-60480	5243	A	operational-derived	agreed	demo	The SPRHW CI shall have provision for the AIT science processor to be a backup to the production science processor in the event of a failure.

Table 3. Level 4 Requirements deletion table.

S-INS-60310	5253	A	operational	approved	demo	The ICLHW CI shall be capable of operating in a 24-hour-per-day, 7-days-a-week mode.
S-PLS-60410	5256	A	operational	approved	demo	The PLNHW CI shall be capable of operating in a 24-hour-per-day, 7-days-a-week mode.

Table 4. Reference Table (RBR to Level 4 links additions table).

RBR_id	req_key	text	interpretation text	L4 id	req. key	rel	req_type	req_status	text
<u>SDPS0010#A</u>	4127	The SDPS shall provide CSMS with operational, data processing, and data quality data quality and accounting status.	Accounting is Accountability plus Billing. Rel. A: No accounting-billing.	<u>C-MSS-76000</u>	354	A	functional	approved	The MSS accountability management service shall be capable of retrieving user activity data (user id, type of user activity, data items used (browsed, searched, or ordered), and date/time of activity) from records generated by the SDPS Data Server, Data Processing, and Client subsystems.
				<u>C-MSS-76005</u>	5316	A	functional	approved	The MSS Accountability Management Service shall be capable of retrieving user history data for a specified managed resource.
				<u>C-MSS-76010</u>	356	A	functional	approved	The MSS accountability management service shall be capable of querying via the Management Data Access service user activity data stored in the Management Database.
				<u>C-MSS-76020</u>	357	A	functional	approved	The MSS accountability management service shall be capable of retrieving all activities associated with a particular user or data item via the Management Data Access service.
<u>SDPS0030#A</u>	5400	The SDPS shall produce Standard Products (as listed in Appendix C, including prototype products on a time-available basis) for EOS instruments based on the algorithms source code and calibration coefficients supplied by EOS scientists.	A: TRMM (CERES)	<u>S-DSS-00065</u>	3223	A	interface	approved	The SDSRV CI shall accept Service Requests from the Data Processing subsystem and, as a result, provide access to Data for the purpose of standard processing.
				<u>S-DPS-21000</u>	3746	A	functional	approved	The STMGT CI shall provide the SDSRV CI the capability to read

									information from files on archive storage media in the DRPHW CI.
<u>SDPS0032#A</u>	4152	The SDPS shall provide the PIs and the other science users with the updated metadata for the assessment of data product quality.		<u>S-DSS-00165</u>	3237	A	functional	approved	The SDSRV CI shall update the Inventory with the updated Metadata that was received.
<u>SDPS0050#A</u>	4154	The SDPS shall archive, manage, quality check, and account for the generated data products, and distribute the data products to the appropriate destinations as required.		<u>S-DSS-03412</u>	3465	A	interface	approved	The SDSRV CI shall interface with the STMGT CI to provide storage for L - L4 Data.
				<u>S-DSS-21365</u>	9139	A	functional	approved	The STMGT CI shall provide storage for the Data Products listed in <u>Appendix F of the current version of 304-CD-005</u> .
<u>SDPS0080#A</u>	4155	The SDPS shall archive, manage, and quality check and account for all science data received from the EPDSs and ancillary data received from the EPDSs, the SCFs, the ADCs, other DAACs, PIs and the other EOS science users.	A: 2 DAACs, CERES, TRMM A: No IPs, ODCs	<u>S-DSS-03412</u>	3465	A	interface	approved	The SDSRV CI shall interface with the STMGT CI to provide storage for L - L4 Data.
				<u>S-DSS-21365</u>	9139	A	functional	approved	The STMGT CI shall provide storage for the Data Products listed in <u>Appendix F of the current version of 304-CD-005</u> .
<u>SDPS0091#A</u>	4168	The SDPS shall receive a quality report that is generated and transmitted by the PIs or the other science users, and appended to the data products being archived by the SDPS.	A: QA CERES- <u>Metadata contains quality reports and appended to the data by association.</u>	<u>S-DSS-10051</u>	10591	A	functional	approved	The DDSRV CI shall provide storage for Production Error Reports.
				<u>S-DSS-04597*</u>	?	A	functional	approved	The SDSRV CI shall provide a Motif GUI which permits DAAC operators to view pending QA updates in the QA metadata holding table, select entries for approval, and approve the selected entries for insertion into the product inventory. Metadata Updates from the SCF. These shall include the science QA codes and optionally a report describing the results of product QA and any further instructions to the ECS. The ECS shall only accept Metadata Update
				<u>S-DSS-04598*</u>	?	A	functional	approved	The SDSRV CI shall transfer QA updates from the QA metadata holding table into the inventory table after they have been approved for insertion.
				<u>S-DMS-33130*</u>	?	A	interface	incremental	The GTWAY CI shall insert the QA updates it receives into a database table (QA metadata holding table).
<u>SDPS0130#A</u>	4207	The SDPS shall provide the capability for DAACs to exchange data products, browse data, metadata, data quality information, research results, and documentation.		<u>S-DSS-03712</u>	3492	A	interface	approved	The SDSRV CI shall interface with the STMGT CI to provide storage for Research results (articles, algorithms, data sets, software).
				<u>S-DSS-00710**</u>	?	A	interface	approved	The SDSRV CI shall accept Data Requests from other Data Servers.
				<u>S-DSS-30711**</u>	?	A	?	?	The DDIST CI shall be capable of sending data to a remote DAAC.
<u>SDPS0170#A</u>	6487	The SDPS shall accommodate growth in the instrument processing load and storage capacity without changes to the SDPS architecture or design.		<u>S-DSS-21770</u>	3936	A	performance	approved	The DRPHW CI shall be capable of providing of 200 percent expansion in capacity without architecture or design change.

- \* marks requirements that are implemented in CCR 96-0936A.  
 \*\* marks requirements that are implemented in CCR 96-1002.

**Table 5. RBR to Level 4 links additions table.**

RBR_id	L4_id
<a href="#">SDPS0010#A</a>	C-MSS-76000
<a href="#">SDPS0010#A</a>	C-MSS-76005
<a href="#">SDPS0010#A</a>	C-MSS-76010
<a href="#">SDPS0010#A</a>	C-MSS-76020
<a href="#">SDPS0030#A</a>	S-DSS-00065
<a href="#">SDPS0030#A</a>	S-DPS-21000
<a href="#">SDPS0032#A</a>	S-DSS-00165
<a href="#">SDPS0050#A</a>	S-DSS-03412
<a href="#">SDPS0050#A</a>	S-DSS-21365
<a href="#">SDPS0080#A</a>	S-DSS-03412
<a href="#">SDPS0080#A</a>	S-DSS-21365
<a href="#">SDPS0091#A</a>	S-DSS-10051
<a href="#">SDPS0091#A</a>	S-DSS-04597*
<a href="#">SDPS0091#A</a>	S-DSS-04598*
<a href="#">SDPS0091#A</a>	S-DMS-33130*
<a href="#">SDPS0130#A</a>	S-DSS-03712
<a href="#">SDPS0130#A</a>	S-DSS-00710**
<a href="#">SDPS0130#A</a>	S-DSS-30711**
<a href="#">SDPS0170#A</a>	S-DSS-21770